

-1- (JAPIO)

ACCESSION NUMBER

TITLE

PATENT APPLICANT

INVENTORS

PATENT NUMBER

APPLICATION DETAILS

SOURCE

INT'L PATENT CLASS

JAPIO CLASS

ABSTRACT

85-236462

ALKALINE DRY BATTERY

(0000000) SANYO DEYURASERU KK; (2000188) SANYO

ELECTRIC CO LTD

NAKAIDO, SHIGEHIO; IKEDA, KONOSUKE

85.11.25 J60236462; ~~JP 60-236462~~

84.05.10 84JP-094076, 59-94076

86.04.12 SECT. E, SECTION NO. 395; VOL. 10, NO. 95,
PG. 57.

H01M-006/06; H01M-004/12; H01M-004/66

42.9 (ELECTRONICS--Other)

PURPOSE: To reduce mercury content without sacrifice
of storage life of a battery by forming a negative
electrode with zinc powder or zinc powder alloyed
with a small quantity of mercury, and uniformly
amalgamating the surface of a current collecting rod.

CONSTITUTION: In a cylindrical alkaline dry battery,
a negative electrode 2 is formed with zinc powder 6
or zinc powder amalgamated with 5wt% or less of
mercury. A current collecting rod 3 made of Cu or Ni
is covered with at least one metal such as In, Pb,
Tl, Ga, and Cd, or uniformly amalgamated before use.
Since mercury content can be reduced without
sacrifice of storage life, the battery has the
advantages of cost reduction and environmental
pollution prevention.